

# SYSTEM SUPPORT DIRECTIVE

ASR9

SDR-ASR9-011

6310

**System  
Documentation  
Release**

**ANTENNA WRENCHES**

**Highlights**

**10/06/2004**

**1. PURPOSE.** This system documentation release (SDR) provides ASR-9 facilities with wrenches for adjusting the antenna jack screw jam nuts. The wrenches are a one time supplied tool. Facilities that require additional tools will need to contact their local distributor.

## **2. DISTRIBUTION.**

a. This SDR is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: ASR-9.

b. An electronic version and distribution report of this SDR are available on an Intranet site located at <http://aos-ext.amc.faa.gov/> under the "Technical Documentation" heading.

c. The ASR-9 antenna wrenches will be supplied by AOS-270. If a problem should arise in receiving the wrenches, contact AOS-270 directly at (609) 485-4817.

d. To obtain additional hard copies of this publication, contact Printing & Distribution Team, AMI-700B, at (405) 954-6892.

## **3. WITHDRAWALS/CANCELLATIONS.**

**4. APPLICATION.** The revised pages apply to all ASR-9 facilities.

### SSD PAGE CONTROL CHART

Remove Pages	Dated	Insert Pages	Dated
<u>SSD TOC</u>			
All Pages	All Dates	All Pages	10/06/2004

**5. CHANGES TO RECORDED DATA.** Process a modification record and place this record into the Facility Reference Data File (FRDF) in accordance with the latest Order 6032.1 National Airspace System Modification Program and Order 6030.45 Facility Reference Data File.

**DISTRIBUTION:** 53AC

**INITIATED BY:** ASR-9  
Terminal/RDAS Branch

**6. ADDRESS CHANGES.** Submit facility address changes to Carrie Batty via email to Carrie.ctr.Batty@faa.gov.

**7. RISKS.** If changes are not incorporated, unauthorized configuration may degrade the efficiency of the National Airspace Systems (NAS) and the ability to maintain operations.

**8. STATUS ACCOUNTING.** The maintenance organization does not open Log Equipment Modification (LEM) entries for documentation releases because the Facility/Service Equipment Profile (FSEP) does not clearly identify where all documentation is located. Providing your equipment is listed in the FSEP, you should open a LEM record in the Maintenance Management System (MMS) for the system to be modified from paragraph 6, Application.

- a. Upon completion of this modification, you are required to close the LEM record and change the Maintenance Action Code (MAC) to:
  - (1) "G" if the modification was completed.
  - (2) "W" if the modification is not applicable.
- b. Verify that an "N" is in the "REP COD" field to ensure that the log entry will be upwardly reportable to the national database for National MOD Tracking.
- c. The data entry record is to be entered into the LEM as follows:

MMS FIELD NAME	DATA ENTRY
FAC/SERV:	Enter your facility/service type.
LOC INDENT:	Enter your site identification.
SHORT NAME:	Enter the short name for this equipment from MMS
ORDER#/SYSTEM:	SDR-ASR9
CHAP/SEQ#:	011
CHG:	D



for Richard A. Thoma  
Director for Technical Operations Support

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## **APPENDIX 1. ASR-9 ANTENNA WRENCHES PARTS LIST AND INSTRUCTIONS**



## APPENDIX 1. ASR-9 ANTENNA WRENCHES PARTS LIST AND INSTRUCTIONS

### Parts list:

Martin Tools	2 -1/4 inch wrench	P/N 1972	QTY 1
Martin Tools	2 -1/4 inch wrench	P/N 1272	QTY 2

The purpose of the wrenches are to supply each ASR-9 facility with the proper tools to adjust the Antenna Jack Screw jam nuts. The tools are to augment the ASR-9's initial "one time" supply of tools. Facilities that require additional tools will need to contact their local distributor for replacement.

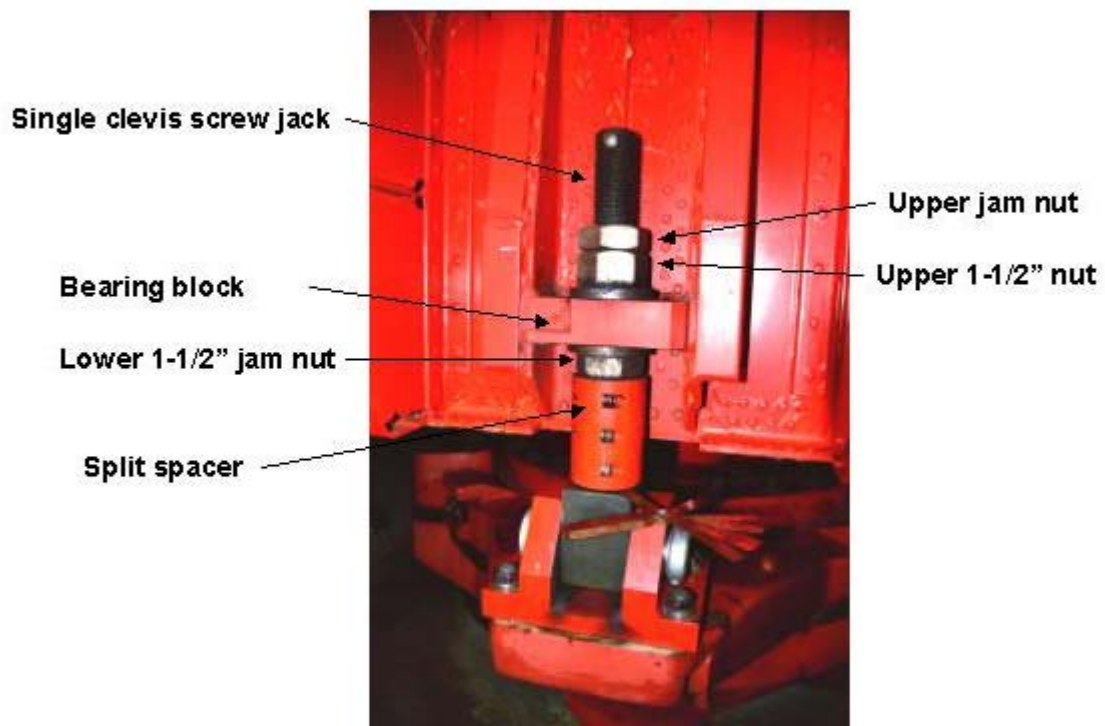
### Instructions:

As a reminder whenever there is a need to adjust the antenna tilt settings or tighten the nuts on the jack screw assembly the following sequence applies:

1. Ensure that all threads are coated with anti-seize compound.
2. Tighten lower 1½" diameter thread size jam nut down to the top of spacer assembly. Each facility was supplied with spacers that would permit all combinations of tilt settings.
3. Tighten the ASR-9 Antenna by turning downward the upper 1½" thread size nut until the Bearing Block is tight against the lower spacer assembly and jam nut.
4. Thread and tighten the upper jam nut tight against the nut that was secured in step 2.

The lower jam nut should never be used to tighten [up] against the Bearing Block. It is always tightened against the spacer.

## ANTENNA TILT MECHANISM



**ATTACHMENT 1. SSD TABLE OF CONTENTS**





## SYSTEM SUPPORT DIRECTIVE (SSD)

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#### ***SYSTEM SUPPORT MODIFICATIONS (SSM)***

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
SSM-ASR9-001	04/23/99	ASRS-9 SERIAL INTERFACE SYSTEM
SSM-ASR9-002	02/06/98	TRANSMITTER POWER INTERRUPT AND BLOWER MOTOR FUSE
SSM-ASR9-003	10/19/99	REMOVAL OF CIRCUIT BREAKERS FROM MODEM RACK
SSM-ASR9-004	03/13/98	UPGRADE MODE-S INTERFACE SUPPORT
SSM-ASR9-005	04/01/99	PROCESSOR AUGMENTATION CARD PHASE I
SSM-ASR9-006	04/29/98	ASR-9 REMOTE SCIP CIRCUIT BREAKER WIRING CONNECTION
SSM-ASR9-007	06/07/99	ALTERNATE DUAL REDUNDANT MODIFICATION
SSM-ASR9-008	08/02/99	MUFFIN FAN REPLACEMENT
SSM-ASR9-009	TBD	PROCESSOR AUGMENTATION CARD PHASE II
SSM-ASR9-010	CANCELLED	ASR-9 UPDATES
SSM-ASR9-011	03/26/03	SOFTWARE SUPPORT FOR THE WEATHER SYSTEMS PROCESSOR
SSM-ASR9-012	06/19/03	WEATHER SYSTEMS PROCESSOR INTERFACE TO THE ASR-9
SSM-ASR9-013	06/05/01	ASR-9 SERIAL INTERFACE SYSTEM (ASIS) PHASE II
SSM-ASR9-014	05/20/04	ANOMALOUS PROPAGATION (AP) FILTER
SSM-ASR9-015	TBD	UPDATE PROCOMM PLUS SCRIPTS
SSM-ASR9-016	07/14/03	ASR-9 SERIAL INTERFACE SYSTEM (ASIS) PHASE II DUAL BOARD

**SYSTEM TECHNICAL RELEASES (STR)**

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
STR-ASR9-001	02/06/98	DELIVERY OF AIRPORT SURVEILLANCE RADAR-9 PROCOMM SOFTWARE UPDATE
STR-ASR9-002	12/29/98	DELIVERY OF AIRPORT SURVEILLANCE RADAR-9 PROCOMM SOFTWARE UPDATE VERSION 5.0
STR-ASR9-003	11/29/99	DELIVERY OF AIRPORT SURVEILLANCE RADAR-9 SOFTWARE UPDATE VERSION 6.0
STR-ASR-9-004	12/15/99	ASR-9 VARIABLE SITE PARAMETERS AND PROGRAMMABLE ALARM THRESHOLD/FILTER BASELINE
STR-ASR9-004A	06/20/01	ASR-9 VARIABLE SITE PARAMETERS AND PROGRAMMABLE ALARM THRESHOLD BASELINE UPDATES

**SYSTEM DOCUMENTATION RELEASES (SDR)**

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
SDR-ASR9-001	CANCELLED	BY SDR-ASR9-002
SDR-ASR9-002	CANCELLED	BY SDR-ASR9-003
SDR-ASR9-003	05/09/02	ASR-9 TECHNICAL INSTRUCTION BOOKS UPDATE AND REISSUE OF ASR-9 TI CD ROM
SDR-ASR9-004	09/02/03	DELIVERY OF THE AIRPORT SURVEILLANCE RADAR-9 OPTIMIZATION PROCEDURES
SDR-ASR9-005	07/12/04	UPDATE TO STR-ASR9-004A
SDR-ASR9-006	01/23/04	UPDATE TO SSM-ASR9-012 OMIT INCORPORATION OF TI 6310.28 PAGE CHANGES
SDR-ASR9-007	TBD	UPDATE TO TI 6310.28
SDR-ASR9-008	05/25/04	UPDATE TO EEM 6310.18, CHG. 19, CHAP. 16
SDR-ASR9-009	TBD	TBD
SDR-ASR9-010	TBD	TBD
SDR-ASR9-011	10/06/04	ANTENNA WRENCHES